## Introduction

Thank you for purchasing Mini Club. Mini Club is a two-channel DMX laser can be controlled via a standard DMX controller. It is a lightweight, mini intelligent fixture and is an ideal product for discos, clubs, exhibitions and any place that need visionary effect. Mini Club provides red or green (single color) or red, green, yellow (tricolor) laser effect and three operating modes. For safe operation, read this manual before powering or installing the fixture, follow the safety precautions listed below, and observe all warnings printed in this manual and on the fixture.

## Safety Precautions

- Do not spill liquids into or onto your unit. If this ever happens, disconnect the main power immediately. Do not connect this unit to any dimmer pack.
- Always disconnect from main power before making any type of connection.
- Be sure to locate this unit in a place with adequate ventilation at least 15 cm from a wall, and mount this unit in safe and stable matter.
- To prevent fire or shock hazard, do not expose this unit to a high temperature or high humidity area. Please unplug unit when not in use.
- Always keep combustible materials away from the fixture.
- This unit is intended for indoor use. Use of this unit outdoors voids all warranties.
- Always refer service to a qualified technician. Never look directly into laser beam.
- Occasional breaks are necessary to prevent breakdowns.
- **Caution - Use of controls or adjustments or performance of procedures other than as specified herein may result in hazardous radiation exposure!**

## Set Up

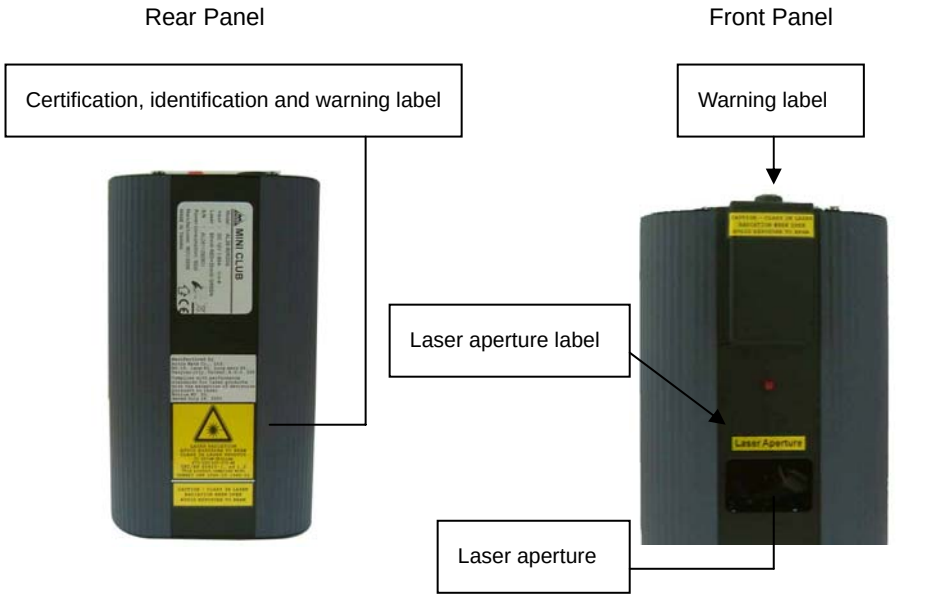
**Unpacking** Mini Club comes with: 1 hanging bracket, 2 clamp levers, 2 washers, 1 adapter and 1 user manual. Unpack carefully and be sure that no damage has occurred during shipping. If there is anything missing or appear to be damaged please contact your dealer.

**Power Connection** Be sure the source voltage in your area matches the required voltage for your Mini Club before plugging your unit in. Incorrect voltage selection will detrimentally affect the operation of this product.

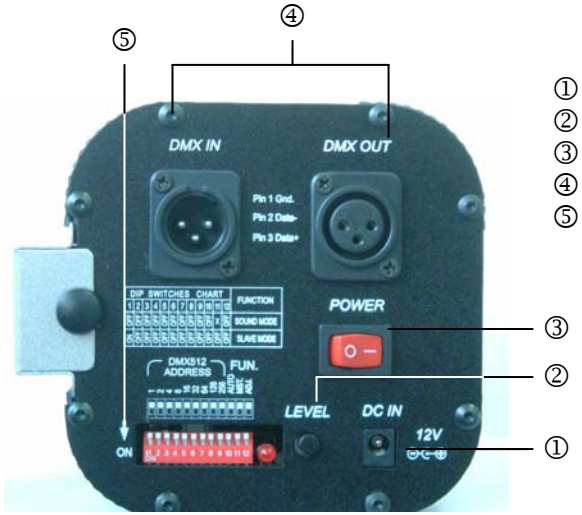
**DMX Cable Connection** Mini Club is a two-channel DMX fixture that can be operated with universal DMX controller. This unit and DMX controller require a standard 3-pin XLR connector for data input and data output.

**Installation/Mounting** Mini Club should be properly mounted by using a suitable hanging clamp and safety cable. Use in a well-ventilated area. Be sure no ventilation slots are blocked.

## Safety Label Position




## Control Panel Introduction




① Adapter Connection
② Sensitivity Adjustment Knob
③ Power Switch
④ DMX In & Out
⑤ DIP Switch Pin

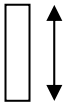
## Operating Modes (Cont.)

DMX Signal Levels

| Channel 1 (Single Color) | | Channel 1 (Tricolor) | |
|---|---|---|---|
| Range | Lines Selection | Range | Colors and Lines Selection |
| 226-255 | Lines change every 5 seconds | 226-255 | Colors and Lines change every 5 seconds |
| 208-225 | Lines change every 3 seconds | 208-225 | Colors and Lines change every 3 seconds |
| 157-207 | Dotted line 3 | 196-207 | Red + Yellow + Green, dotted line2 |
| | | 183-195 | Red + Green, dotted line2 |
| | | 170-182 | Green, dotted line2 |
| | | 157-169 | Red, dotted line2 |
| 105-156 | Dotted line 2 | 144-156 | Red +Yellow + Green, line |
| | | 131-143 | Red + Yellow, line |
| | | 118-130 | Green + Yellow, line |
| | | 105-117 | Red + Green, line |
| 53-104 | Dotted line 1 | 92-104 | Red + Yellow + Green, dotted line |
| | | 79-91 | Red + Green, dotted line |
| | | 66-78 | Yellow, dotted line |
| | | 53-65 | Green, dotted line |
| 1-52 | Line | 40-52 | Red, dotted line |
| | | 27-39 | Yellow, line |
| | | 14-26 | Green, line |
| | | 1-13 | Red, line |
| 0 | Off | 0 | Off |

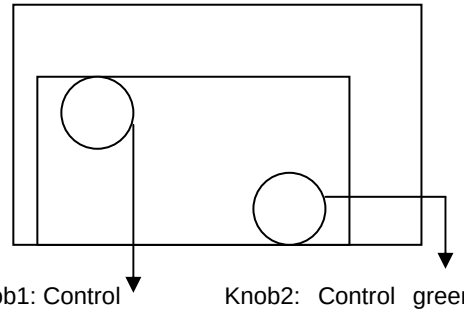
## Operating Modes (Cont.)

DMX Signal Levels (Cont.)

| Channel 2 | | |
|---|---|---|
| Range | Laser up/down movement selection | |
| 228-255 | Sound Active | |
| 224-227 | | Laser lights continuously fast move downward |
| 220-223 | | Laser lights continuously moderate move downward |
| 216-219 | | Laser lights continuously slow move downward |
| 213-215 | Stop | |
| 209-212 | | Laser lights continuously slow move upward |
| 205-208 | | Laser lights continuously moderate move upward |
| 201-204 | | Laser lights continuously fast move upward |
| 0-200 |  | Laser position selection |

## Trouble Shooting

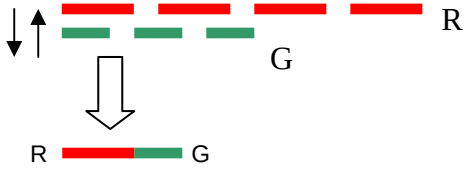
- If there is no light from the unit, please check the main power supply and fuse.
- If unit does not respond to DMX, please check the DMX cables are connected properly and are wired correctly.
- If unit does not response to the music please check the sound-activation adjustment.
- If problems cannot be solved please contact your dealer for service
- You can adjust the position of green and red light by follow steps to make the best yellow light effect. (FOR AL28 TRI-COLOR UNITS ONLY)
  Step1: Set the DIP switch 12 to ON, others to OFF
  Step2: Open the case (Before you open the case please project light on to the wall. Never look into the beam directly.)



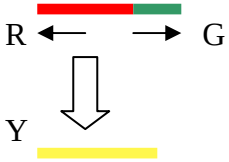
Knob1: Control green light vertically.

Knob2: Control green light horizontally.

Step3: control knob1 to vertically adjust green light line to the same position of height with red light line




Step4: control knob2 to overlap the green light line and red light line




## Operating Modes

**1. Stand-Alone Operation (Auto, Sound Active Mode)**

Auto mode

- The unit runs built-in program to change the laser effects automatically. Set DIP switch pin 10 to ON, other pins to OFF to run Auto mode

Sound Active mode

- This unit has built-in program that will react to sound and music under Sound Active mode. Set all DIP switch pins to OFF to run Sound Active mode

**2. Master-Slave Operation (Auto, Sound Active Mode)**

This mode allows user to link up to 32 units to run the Master-Slave operation. In the Master-Slave operation one unit will act as the controlling unit and the others will react to the controlling unit. Daisy chain your units via the standard XLR microphone cables in the following configuration: 'Out' from the first unit to 'In' on the second, 'Out' from the second to 'In' on the third and so on.

Auto mode

- To set the master: Set DIP switch pin 10 and 11 to ON, other pins to OFF.
- To set the slaves: Set pin 1 to ON, other pins to OFF

Sound Active mode

- To set the master: Set DIP switch pin 11 to ON, other pins to OFF.
- To set the slaves: Set pin 1 to ON, other pins to OFF

**3. DMX Operation**

- DMX operation gives the users freedom to create their own programs tailored to their own individual needs.
- To run this unit in DMX mode, connect the unit to any standard DMX controller via XLR connectors.
- Please consult DMX controller manual to determine address.

Function Selection Chart

| DIP SWITCHES CHART | | | | | | | | | | | | FUNCTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | X | OFF | SOUND MODE |
| OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | ON | X | OFF | AUTO MODE |
| SET SOUND / AUTO MODE | | | | | | | | | | ON | OFF | MASTER |
| ON | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | SLAVE |
| SET ADDRESS | | | | | | | | | OFF | OFF | OFF | DMX MODE |
| OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | ON | TEST MODE |

## Cleaning

Use a soft cloth and normal glass cleaner to clean the outside casing. Cleaning frequency depends on the environment in which the fixture operates. Be sure to dry all parts before plugging the unit back in.

## Specifications

| | | | | | |
|---|---|---|---|---|---|
| Product Name | Mini Club | | | | |
| Model No. | AL28-05R/30R/ 50R/100R/200R | | | AL28-05G/20G/30G | |
| Laser Diode | 4.9/ 30/ 50/ 100/ 200mW Red | | | 4.9/ 20/ 30mW Green | |
| Laser Color | Red | | | Green | |
| Model No. | AL28-5R5G | AL28-20R10G | AL28-50R20G | AL28-100R30G | AL28-200R50G |
| Laser Diode | 4.9~200mW Red & 4.9~50mW Green | | | | |
| Laser Color | Red, Green and Yellow | | | | |
| Net Weight | 2.5Kgs | | | | |
| Power | With an UL Adapter (Input 100V ~ 120V 60Hz & Output DC 12V 1.2A) or a CE Adapter (Input 220V ~ 240V 50Hz & Output DC 12V 1.2A) | | | | |
| Classification | 4.9mW to 20mW: 3R/ 30mW to 200mW: 3B | | | | |
| Size (mm) | L120 × W130 × H200 | | | | |
| Material | Metal | | | | |
| Beam Divergence | < 1.5 mrad | | | | |
| Op. Temperature | 18 ~ 25 ℃ | | | | |

# Mini Club

## AL28 Series User Manual

***Your Best Mate***

***in Laser Lighting!***

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